

FROL'KIS, V.V.; BUSHMAKINA, Z.I.; SHCHEGOLEVA, I.V.

Mechanism of change in chemoreceptors of the blood vessels in reflex adaptation. Biul.eksp. biol. i med. 51 no.1:8-13 Ja '61.

(MIRA 14:5)

1. Iz kafedry normal'noy fiziologii (zav. - akademik AN USSR G.V. Fol'bort [deceased]) Kiyevskogo meditsinskogo instituta i laboratori fiziologii (zav. - doktor meditsinskikh nauk V.V.Frol'kis) Instituta gerontologii i eksperimental'noy patologii. Predstavlena akademikom V.N.Chernigovskim.

(BLOOD VESSELS—INNERVATION) (ADENOSINE PHOSPHATES)  
(RESPIRATION)

FROL'KIS, Vladimir Veniaminovich, doktor med. nauk; KUL'CHITSKIY,  
Konstantin Ivanovich, dots.; MIL'KO, Vasiliy Ivanovich,  
dots.; KUZ'MINSKAIA, Undina Anatol'yevna, kand. med. nauk;  
FEDOROV, I.I., red.; RAYZ, A.L., tekhn. red.; CHUCHUPAK,  
V.D., tekhn. red.

[Coronary blood circulation and experimental myocardial  
infarct] Koronarnoe krovobrashchenie i eksperimental'nyi  
infarkt miokarda. Kiev, Gosmedizdat USSR, 1962. 254 p.  
(MIRA 16:11)

(HEART--INFARCTION) (CORONARY VESSELS)

BUSHMAKINA, Z.I.; VERKHRATSKIY, N.S.; KONSTANTINOVSKIY, G.A.; KOSTYUK, L.V.;  
KUZ'MINSKAYA, U.A.; KUL'CHITSKIY, K.I.; MIL'KO, V.I.; FROL'KIS, V.V.

Neurohumoral regulation of the cardiovascular system in experimental  
arteriosclerosis. Vrach. delo no.1:3-11 Ja '62. (MIRA 15:2)

1. Institut gerontologii i eksperimental'noy patologii AMN SSSR,  
Kiyevskiy meditsinskiy institut.  
(ARTERIOSCELROSIS) (CARDIOVASCULAR SYSTEM)  
(REFLEXES)

FROL'KIS, V.V. (Kiyev); GOLOVCHENKO, S.P. (Kiyev); DUKHOVICHNYY, S.M. (Kiyev); TANIN, S.A. (Kiyev)

Functional changes in the blood circulation and respiration in the aging of the body. Klin. med. 40 no.12:87-93 D '62,  
(MIRA 17:2)

1. Iz laboratorii fiziologii (zav. - doktor med. nauk V.V. Frol'kis) Instituta gerontologii i eksperimental'noy patologii (dir. - chlen-korrespondent AMN SSSR prof. D.F. Chebotarev) AMN SSSR.

FROL'KIS, V.V.

Reflex regulation of the vascular system during aging. Fiziol.  
zhur. 48 no.6:692-699 Je '62. (MIRA 15:8)

1. From the Physiological Laboratory, Institute of Gerontology,  
Kiev.

(BLOOD—CIRCULATION) (AGING) (REFLEXES)

GOREV, N.N., red.; FROL'KIS, V.V., red.; CHEBOTAREV, D.F., prof., red.; SHURUPOVA, Ye.A., red.; VERKHRATSKIY, N.S., red.

[Mechanisms of aging] Mekhanizmy starenia Kiev, Gos.med.  
izd-vo USSR, 1963. 499 p. (MIRA 16:11)

1. Akademiya meditsinskikh nauk SSSR. Moscow. Institut gerontologii i eksperimental'noy patologii. 2. Chlen-korrespondent AMN SSSR (for Chebotarev). 3. Institut gerontologii i eksperimental'noy patologii AMN SSSR (for Verkhratskiy).  
(GERIATRICS)

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000513730010-1

GOREV, N. N.; FROLKIS, V. V.; and FUDEL-CSSIPOVA, S. I.

Changements Des Reactions D'Adaptation Au Cours Du Vieillissement  
De L'Organisme. Environmental Factors

Gerontology, 6th International Congress, Copenhagen, Denmark  
11-16 August 1963

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000513730010-1"

FROL'KIS, V.V.; GOLOVCHENKO, S.F.; DUKHOVICHNYY, S.M.; MURAVOV, I.V.;  
TANIN, S.A.

Change in working capacity, energy expenditure, blood circulation  
and respiration during the aging of the organism. Vrach.  
delo no. 3:54-59 Mr '63. (MIRA 16:4)

1. Laboratoriya fiziologii (zav. - V.V.Frol'kis) Instituta  
gerontologii i eksperimental'noy patologii AMN SSSR.  
(AGING)

FROL'KIS, V.V.; SVECHNIKOVA, N.V.; VERZHNIKOVSKAYA, N.V.; VERKHRATSKIY, N.S.

Characteristics of the course of the general adaptation syndrome in old and young animals under the influence of neural and humoral stimulators. Fiziol.zhur. [Ukr] 9 no.3:330-337 My-Je '63.

(MIRA 18:1)

1. Laboratory of Physiology and Endocrinology of the Institute for Gerontology and Experimental Pathology of the Academy of Medical Sciences of the U.S.S.R., Kiyev.

FROL'KIS, V.V.; ZAMOST'YAN, V.P.

Age-related characteristics of the regulation of trophic processes  
in the skeletal muscles. Fiziol. zhur. [Ukr.] 9 no.5:596-600  
S-0163 (MIRA 1714)

1. Laboratoriya fiziologii Instituta gerontologii i eksperi-  
mental'noy patologii AMN SSSR, Kiyev.

FROL'KIS, V.V. (Kiyev)

Neurohumoral regulation of function in the aging of the body.  
Vest. AMN SSSR 18 no.2:70-76 '63. (MIRA 17:5)

1. Institut gerontologii i eksperimental'noy patologii AMN SSSR.

FROL'KIS, V.V.; SHCHEGOLEVA, I.V.

Mechanism underlying sensitivity variations in the chemoreceptors of vessels in an aging organism. Dokl.AN SSSR 148 no.4: 982-984 F '63. (MIRA 16:4)

1. Institut gerontologii i eksperimental'noy patologii AMN SSSR. Predstavлено академиком L.S.Shtern.  
(BLOOD VESSELS—INNERVATION) (REFLEXES) (AGING)

FROL'KIS, V.V.; VERKHRATSKIY, N.S.

Changes in the sensitivity of effectors to the action of neural and  
humoral stimulants during the aging of the organism.  
Dokl. AN SSSR 148 no.5:1228-1230 F '63. (MIRA 16:3)

1. Institut gerontologii i eksperimental'noy patologii AMN SSSR.  
Predstavлено академиком L.S.Shtern.  
(AGING) (STIMULANTS) (NEUROCHEMISTRY)

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000513730010-1

FROL'KIS, V.V.; ANTONOV, Yu.G.; GOLOVCHENKO, S.F.; PONOMAREVA, I.D.

Age-related characteristics of the regulation of blood circulation.  
Vop. geron. i geriat. 4:15-33 '65. (MIRA 18:5)

1. Institut gerontologii AMN SSSR i Institut kibernetiki AN UkrSSR.

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000513730010-1"

FROL'KIS, V.V.; BOGATSKAYA, L.N.

Age-related characteristics of the regulation of energy metabolism  
processes in the heart. Vop. geron. i geriat. 4:104-117 '65.  
(MIRA 18:5)

1. Institut gerontologii AMN SSSR i Kiyevskiy meditsinskiy institut.

FROL'KIS, V.V.

Age-related characteristics of the sensitivity of tissues to the  
effect of hormones. Fiziol.zhur. 51 no.7:357-262 '65.  
(MIRA 18:10)  
1. Laboratoriya fiziologii Instituta gerontologii AN SSSR, Kiyev.

ФРОЛ'КИС В.В.

Characteristics of the adaptation of the cardiovascular reflexes  
in old animals. Biol. prep. Mol. i med. 60 no.8;32-36 Ag '65.  
(МЗРА 18:9)

1. Laboratoriya fiziologii (zav. doktor med. nauk V.V. Frol'kis)  
Instituta paronatologii (kr.-stol'shchik-scient AMN SSSR prof.  
L.I. Chalyutin), АМН СССР, Куйв.

FROL'KIS, V.V.

Aging and adaptation of the organism. Fiziol.zhur. [Ukr.] 10  
no.4:460-468 Jl-Ag '64. (MIRA 18:11)

1. Laboratoriya fiziologii Instituta gerontologii AMN SSSR,  
Kiiev.

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000513730010-1

FROL'KIS, Vladimir Veniaminovich, doktor med. nauk; SHCHEGOLEVA, I.V.  
[Shchegoleva, I.V.], red.

[Modern science on the essence of aging] Suchasna nauka pro  
sut' starinnia. Kyiv, Zdorov'ia, 1965. 61 p. (MIRA 19:1)

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000513730010-1"

VARTAPETOV, Bartol'd Arkad'yevich, prof.; DEMCHENKO, Aleksandr  
Nikolayevich; FROL'KIS, V.V., red.

[Climacteric in men] Klimaks u muzhchin. Kiev, Zdorov'ia,  
1965. 241 p.  
(MIRA 19:1)

L 27703-65 - EWT(1)/T JK  
ACC NR: AP6018408

(N)

SOURCE CODE: UR/0390/65/028/005/0612/0616

AUTHOR: Frol'kis, V. V. (Doctor of medical sciences)

ORG: Laboratory of Physiology /directed by Doctor of medical sciences V. V. Frol'kis/, Institute of Gerontology AMN SSSR, Kiev (Laboratoriya fiziologii Instituta gerontologii AMN SSSR)

TITLE: Sensitivity to and endurance of pharmacological substances in the aging of the organism

SOURCE: Farmakologiya i toksikologiya, v. 28, no. 5, 1965, 612-616

TOPIC TAGS: mouse, rat, rabbit, cat, pharmacology, biologic aging

ABSTRACT: Data are presented on the aging characteristics of sensitivity and endurance of an organism to certain cholinomimetic, cholinolytic, and sympathomimetic substances. Tests conducted on mice, rats, rabbits, and cats demonstrated that an aging organism develops a heightened sensitivity to the effects of acetylcholine, carbocholine, nicotine, dimethylphenylpiperazine, adrenalin, and noradrenalin on the level of the nictitating membrane of the eye skeletal muscles, heart, vegetative ganglia, vascular receptors, and hypophysis. In older animals smaller doses of cardiazol (metrazol) and hexobarbital cause changes in the functional conditions of the nervous centers. In younger animals the range of response changes with increased amounts of the administered drugs is greater than in old ones. Age-specific changes of endurance do not proceed parallel with changes in sensitivity.

Card 1/2 UDC: 615.517-053.9

L 27703-66

ACC NR: AP6018408

The aging changes in endurance of 5-6 and 14-16 month-old mice to various poisons (benzohexonium, dimethylphenylpiperazine, cardiazole, hexenal, adrenalin, and carbocholine) are presented. The LD<sub>50</sub> of carbocholine (in mg/kg) for 5-6 month mice is 1.53 (1.32 ± 1.74) and for 14-16 month mice, 1.96 (1.73 ± 2.19). Orig. art has: 2 figures and 1 table. [JPRS] O

SUB CODE: 06 / SUBM DATE: 16May64 / ORIG REF: 003 / OTH REF: 001

Card 2/2 A 0

FROL'KIS, V.V.

Mechanism of the age-related differences in the reflex adaptation  
to the cardiovascular and respiratory systems. Biul. eksp. Biol.  
i med. 60 no. 10:15-17 O '65 (MIRA 19:1)

1. Laboratoriya fiziologii ( zav. - doktor med. nauk V.V. Frol'kis)  
Instituta gerontologii ( direktor - chlen-korrespondent AMN SSSR  
prof. D.F. Chebotarev) AMN SSSR, Kiyev. Submitted October 10,  
1963.

FROL'KOS, A.V., kandidat meditsinskikh nauk (Arkhangel'sk).

Effect of tissue therapy on blood and hemopoiesis. Klin.med. 32 no.3:  
81-82 Mr '54.  
(Tissue extracts) (Blood) (MLRA 7:5)

FROLKOV, I.

[Migration and organized recruitment of workers on the 40th anniversary of the October Revolution] Pereselenie i organizovannyi nabor rabochikh k 40-i godovshchine Oktiabria. M, 1957. 77 p.  
(MIRA 11:10)  
(Labor mobility)

ZHUKOV, N.A.; MYTAREV, A.G.; PARAMONOV, A.I.; SAFONOV, A.A.;  
SILKIN, N.P.; SLUTSKIY, Ya.L.; FROLKOV, P.P.;  
KUZNETSOVA, L.G., red.

[Centralized repair of hydraulic systems; work practice of  
the Mikhailov Regional Association of "Sel'khoztekhnika"  
of Ryazan Province] TSentralizovannyi remont gidrosistem;  
opyt raboty Mikhailovskogo raionnogo ob"edinenija "Sel'-  
khoztekhnika" Riazanskoi oblasti. Moskva, Biuro tekhn.  
informatsii, 1964. 14 p. (Perevodci oyut i predlozheniya.  
Serija 1. Remont mashinnotraktornogo parka) (MIRA 18:5)

*2000*  
ACC NR: AP7001076 (1W) SOURCE CODE: UR/0439/66/045/002/0213/0219

AUTHOR: Svadzhyan, P. K. -- Sevadjian, B. K.; Frolkova, L. V.

ORG: Department of Invertebrate Zoology, Samarkand State University (Kafedra zoologii bespozvonochnykh Samarkandskogo gosudarstvennogo universiteta)

TITLE: Ants as intermediate and obligate second hosts of some parasitic flat worms (Trematoda and Cestoda)

SOURCE: Zoologicheskiy zhurnal, v. 45, no. 2, 1966, 213-219

TOPIC TAGS: ant, ant reproduction, worm species, disease vector, parasite

ABSTRACT: This paper is a compilation of data based on literature surveys and the authors' studies concerning parasitic species of Trematoda and Cestoda, and their reproduction and relation to ant hosts (Formicidae). The tabulated data span the years 1935--1964. Thirteen ant species are listed as obligate second intermediate hosts for Dicrocoelium lanceatum Stiles et Hassall, 1896, and one species for the Eurytrema pancreaticum (Janson, 1889) Looss, 1907. Larval development of seven species of Fam. Davaineidae is recorded for 11 ant species belonging to

Card 1/2

UDC: 591.69=579.6=512.1+512.2

ACC NR: AP7001076

the subfamily Myrmicinae. Although larval development of Trematoda and Cestoda was observed in 25 ant species, much more study is required for a comprehensive picture of ants as parasitic hosts and disease vectors. The authors are very grateful to K. V. Arnol'di for determining the ant species. Orig. art. has: 1 table. [Based on authors' abstract] [WA-50]

SUB CODE: 06/ SUBM DATE: none/ ORIG REF: 016/ OTH REF: 018

Card 2/2

FROLKOVA, N.V.

Changes in the electric activity of the pigeon brain under the  
effect of various stimuli. Fiziol. zhur. [Ukr.] 8 no.1:79-85 Ja-F  
'62. (MIRA 15:2)

1. Kafodra normal'noy fiziologii Odesskogo meditsinskogo instituta.  
(PIGEONS) (BRAIN) (ELECTROPHYSIOLOGY)

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000513730010-1

PAVLOV, I.M.; OSADCHIY, V.Ya.; GETIYA, I.G.; FROLOCHKIN, V.V.;  
KOLIKOV, A.P.

Investigating the process of rapid cross rolling. Izv. vys.  
ucheb. zav.; chern. met. 7 no.3:107-112 '64. (MIRA 17:4)

1. Moskovskiy institut stali i splavov.

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000513730010-1"

FROLOCHKINA, N.A.

Effect of tonsillectomy upon the capacity of athletes to  
participate in sports. Sov.med.18 no.1:28-31 Ja '54. (MIRA 7:1)

1. Iz Moskovskogo oblastnogo v rachebno-fizkul'turnogo dispansera.  
(Tonsils--Surgery) (Athletic ability)

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000513730010-1

FROLOV, A.

"Methods for Basic Improvement of Surface Operations in Coal Mines. Tr.  
from the Russian." p. 136,  
(MECHANISACE, Vol. 2, No. 4, Apr. 1953, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4  
No. 5, May 1955, Uncl.

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000513730010-1"

FROLOV, A.

Afforestation

Young disciples of Michurin. Les i step' no. 3, 1952.

Monthly List of Russian Accessions, Library of Congress, July 1952.  
Unclassified.

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000513730010-1

FROLOV, A., inzhener.

Shelling and processing corn in the mill. Muk.-elev.prom. 20 no. ll:  
21-23 N '54.  
(Corn (Maize))

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000513730010-1"

FREYDINA, Z.; FROLOV, A.; YELISAVETSKIY, E.; VOLKOVA, N.

Precast diaphragms for span structures. Avt.dor. 23 no.7:  
32-3 of cover J1 '60. (MIRA 13:7)

(Viaducts)  
(Precast concrete construction)

FROLOV, A.; MISHUROV, N.; GORODNICHENKO, I.; ZAGORUYKO, M.; AMETSHAYEV, I.

The virgin lands should have fully qualified machine-operating personnel.  
Prof.-tekhn. obr. 18 no.1:1-2 Ja '61. (MIRA 14:2)

1. Direktor Uchilishcha mekhanizatsii sel'skogo khozyaystva No.35  
Severo-Kazakhstanskoy oblasti (for Frolov). 2. Direktor Uchilishcha  
mekhanizatsii sel'skogo khozyaystva No. 47 TSelinskogo kraya (for  
Mishurov). 3. Direktor Uchilishcha mekhanizatsii sel'skogo khozyaystva  
No.13 Zapadno-Kazakhstanskoy oblasti (for Gorodnichenko). 4. Direktor  
Uchilishcha mekhanizatsii sel'skogo khozyaystva No. 76 Kustanayskoy  
oblasti (for Zagoruyko). 5. Direktor Uchilishcha mekhanizatsii sel'-  
skogo khozyaystva No.23 Alma-Atinskoy oblasti (for Ametshayev).  
(Kazakhstan—Farm mechanization—Study and teaching)

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000513730010-1

KUZNETSOVA, K.; FROLOV, A.

Centralizing the repair of metal-working equipment. Biul. nauch.  
inform.: trud i zar. plata 4 no.10:3-8 '61. (MIRA 14:10)  
(Machine tools--Maintenance and repair)

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000513730010-1"

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000513730010-1

FROLOV, A. (Gor'kiy)

Walkie-talkie apparatus. Pozh.delo 9 no.224 F '63. (MLA 16:3)  
(Fire departments—Equipment and supplies)

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000513730010-1"

*FROLOV A.A.*  
GURIN, A.S.; KUZ'MIN, A.A.; DROZDOV, L.V.; MOGILEVSKIY, M.M.; GOLOVESH-  
KIN, V.G. [deceased]; *FROLOV A.A.*; GHUTIKOV, P.I., podpolkovnik;  
SOLOMONIK, R.L., tekhnicheskiy redaktor.

[Telephone] Telefonija. Moskva, Voennoe izd-vo Ministerstva obo-  
rony SSSR, 1954. 583 p. [Microfilm] (MLRA 7:11)  
(Telephone)

BARKHATOVA, N.N.; KUZNETSOV, S.S., professor, redaktor; FROLOV, A.A.,  
redaktor; SMIRNOVA, A.V., tekhnicheskiy redaktor.

[Geological studies of the Russian Geographical Society; 1845-  
1917. Materials on the history of Russian geology] Geologicheskie  
issledovaniia russkogo geograficheskogo obshchestva (1845-1917 gg.)  
materialy k istorii otechestvennoi geologii. Moskva, Izd-vo  
Akademii nauk SSSR, 1955. 106 p. (MLRA 8:12)  
(Geographical societies) (Geological research)

FROLOV, A.A. (Kiyev)

Concentration of biomycin in the blood serum in conformity with the  
phase of the acute dysentery process. Vrach.delo no.7:697-700 л.  
'59. (MIRA 12:12)

1. Institut infektsionnykh bolezney AMN SSSR (nauchnyy rukovoditel' -  
prof. G.I. Khomenko).  
(AUREOMYCIN) (BLOOD) (DYSENTERY)

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000513730010-1

FROLOV, A.A., podpolkovnik meditsinskoy sluzhby

Local anesthesia with potentiation under hospital conditions. Voen.-  
med. zhur. no.7:71-72 J1 '61. (MIRA 15:1)  
(LOCAL ANESTHESIA) (AUTONOMIC DRUGS)

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000513730010-1"

KOSENKO, B.F.; TYURKIN, V.P.; SHEPELEVSKO, S.G.; KOCHUROV, N.I.,  
kand. tekhn. nauk, dots., retsenzent; FROLOV, A.A., kand.  
tekhn. nauk, retsenzent; SAFRONOV, S.P., inzh., red.;  
YURKEVICH, M.P., inzh., red. izd-va; PETERSON, M.M., tekhn.  
red.

[Soviet-made tractors] Otechestvennye traktory; spravochnik. Moskva, Mashgiz, 535 p. (MIRA 16:2)  
— (Tractors--Design and construction)

LYUBIMOV, N.I.; MOROZOV, V.I.; FROLOV, A.A.

Physicomechanical properties of carbonatites and their role in  
the distribution of rare metal mineralization. Razved. i okh.  
nedr 29 no.5:30-33 My '63. (MIRA 16:7)

1. TsNIGRI i Vsesoyuznyy nauchno-issledovatel'skiy institut  
mineral'nogo syr'ya.

(Carbonatites—Testing)

FROLOV, Aleksey Alekseyevich; KOKOSHKO, A.G., red.; NAUMOV, K.M.,  
tekhn. red.

[Planning the production and economic operations of industrial enterprises] Planirovanie proizvodstvenno-khoziaistvennoi deiatel'nosti promyshlennykh predpriatii. Moskva, Izd-vo VPSh i TsK KPSS, 1962. 78 p. (MIRA 15:12)  
(Industrial management)

FROLOV, Aleksey Alekseyevich; KOKOSHKO, A.G., red.

[Planning organization of the national economy of the  
U.S.S.R.] Organizatsiia planirovaniia narodnogo kho-  
ziaistva SSSR. Moskva, VPSH pri TsK KPSS, 1963. 105 p.  
(MIRA 17:12)

FROLOV, A.A., podpolkovnik med. sluzhby

Use of potentiated intracheal anesthesia in the hospital. Voen. med.  
zhur. no.2:74-76 F '59. (MIRA 12:7)

(ANESTHESIA, ENDOTRACHEAL

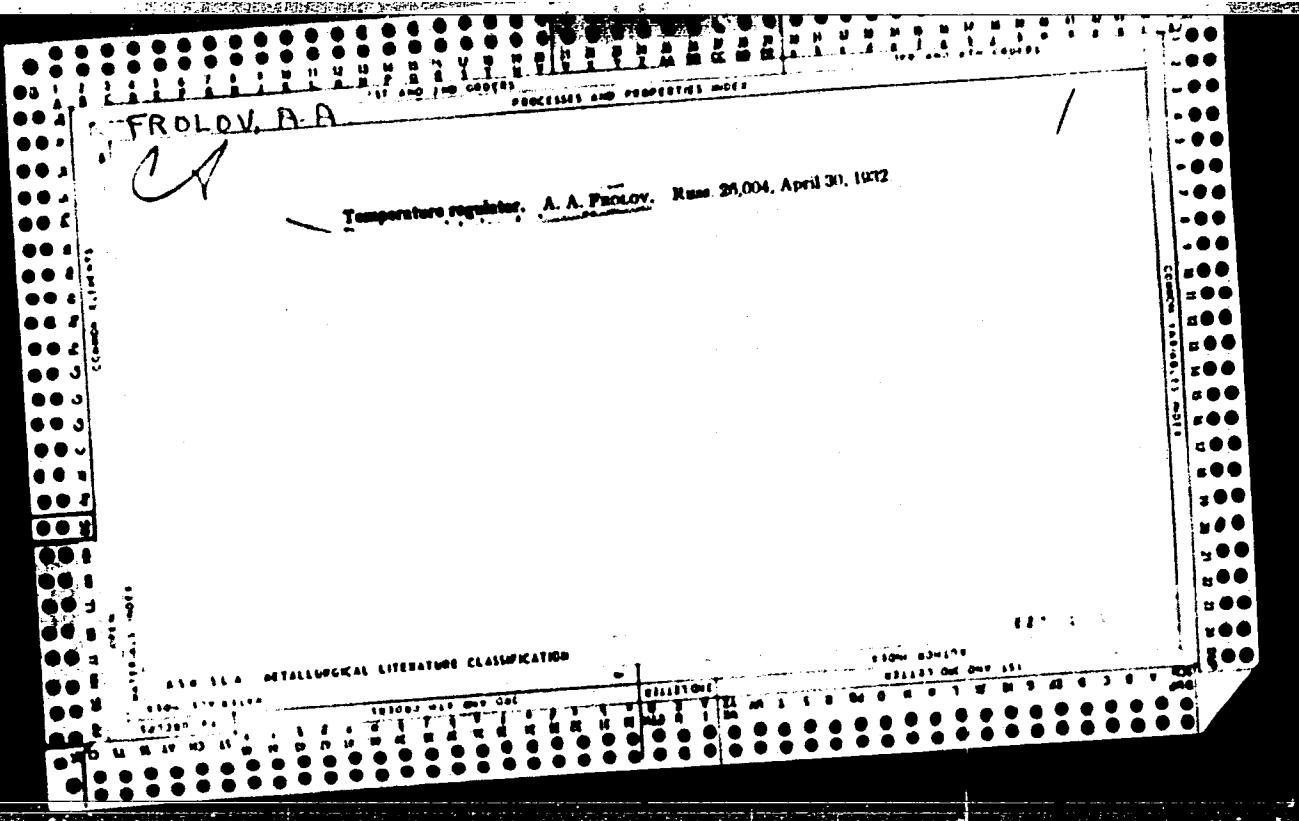
potentiated, in military hosp. (Rus))

(MEDICINE, MILITARY AND NAVAL

potentiated endotracheal anesth. in military hosp. (Rus))

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"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000513730010-1

FROLOV, A. A.

"D-Valve Faucet for Air Distribution," Podshipnik, No.4, 1952.

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000513730010-1"

KARSANOV, Gordey Vasil'yevich; FROLOV, A.A., redaktor; CHERNYAK, I.G.,  
redaktor; VAYNSHTEYN, Ye.B., tekhnicheskiy redaktor

[The iron-alloy smelter's manual] Plavil'shchik ferrosplavov.  
Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po chernoi i tsvetnoi  
metallurgii, 1954. 267 p. [Microfilm] (MLRA 8:2)  
(Iron alloys—Metallurgy)

LEBEDEV, A.A., akademik, redaktor; TOROPOV, N.A., doktor tekhnicheskikh nauk, redaktor; BARZAKOVSKIY, V.P., doktor khimicheskikh nauk; APPEN, A.A., doktor khimicheskikh nauk; PROLOV, A.A., redaktor; ZENDEL', M.Ye., tekhnicheskiy redaktor.

[Structure of glass; proceedings of a conference on the structure of glass, November 23-27, 1953] Stroenie stekla; trudy soveshchaniia, 23-27 noiabria. Moskva, Izd-vo Akademii nauk SSSR, 1955. 368 p. (MLRA 8:12)

1. Soveshchaniya po stroyeniyu stekla, Leningrad, 1953.  
(Glass)

IOFFE, A.F., akademik; PROLOV, A.A., redaktor; KRUGLIKOV, N.A., tekhnicheskiy redaktor

[Semiconductor thermoelements] Poluprovodnikovye termoelementy.  
Moskva, Izd-vo Akademii nauk SSSR, 1956. 103 p. (MIRA 9:2)  
(Thermocouples)

18.3200

75938  
SOV/135-59-10-19/39

AUTHOR: Frolov, A. A. (Engineer)

TITLE: Selection of a Method for the Production of Ferrosilicon  
(Discussion)

PERIODICAL: Stal', 1959, Nr 10, pp 917-919 (USSR)

ABSTRACT: In the production of ferrosilicon basic expenditures are determined by the cost of coke, the share of which in the initial cost of finished alloys varies within a wide range. At Chelyabinsk Metallurgical Plant (Chelyabinskij metallurgicheskiy zavod), for instance, the cost of coke amounts to about 52% of the initial cost of ferrosilicon, at Stalinc Plant (Stalinskiy zavod) to about 70%, and at Nizhniy Tagil Combine (Nizhne-Tagil'skiy kombinat) to 65%. The cost of power consumption and coke in electric furnace production of 18% ferrosilicon also amounts to about 45% of the total expenditures. Since the thermal efficiency of both modern blast and electric furnaces is about the same (0.78 to 0.82), the author tries to

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Selection of a Method for the Production  
of Ferrosilicon (Discussion)

75958

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explain the difference in the heat consumption for de-oxidation of silicon by adducing the following reasons: (1) formation of considerable amounts of slag per unit of silicon in blast furnace inevitably leading to additional heat consumption; (2) slower rates of silica reduction in blast furnace as compared with electric furnace; and (3) additional heat consumption for the reduction of silica in the blast-furnace hearth (according to data supplied by Lyuban, A. P.) from silicate formed in the upper zones of the furnace (generated heat is used to heat flue gas). The author concludes that ferrosilicon should be produced in electric furnaces in preference to blast-furnaces, since heat consumption is considerably lower for the reduction of silicon, decreasing the initial cost of the alloy and cutting coke consumption by 6 to 8 times.

ASSOCIATION: State Planning Commission RSFSR (Gosplan RSFSR)

Card 2/2

GERTS, L.G.; SOLOV'YEV, S.P., doktor geologo-mineralog. nauk, prof.;  
red.; LUKOMSKAYA, A.M., nauchnyy sotrud., red.; PROLOV, A.A.,  
red.; SHUVALOVA, V.V., tekhn. red.

[Index of articles to the second series of the "Zapiski"  
of the All-Union Mineralogical Society, issued from 1912 to  
1957] Uказател' statei ko vtoroi serii "Zapisok Vsesoyuznogo  
mineralogicheskogo obshchestva," izdannykh s 1912 po 1957 god.  
Sost. L.G.Gerts, Pod red. S.P.Solov'yeva. Leningrad, 1960.  
139 p.

(MIRA 14:5)

1. Akademiya nauk SSSR. Bibliotekn. 2. Zaveduyushchaya bib-  
liotekoy Vsesoyuznogo mineralogicheskogo obshchestva AN SSSR (for  
Gerts). 3. Obshchestvo geologo-mineralogicheskikh nauk AN SSSR (for  
Solov'yev). 4. Nauchno-bibliograficheskiy otdel Biblioteki  
Akademii nauk SSSR (for Lukomskaia)  
(Bibliography--Mineralogy) (Mineralogy--Periodicals)

LUPPOV, S.P., otv.red.; PROLOV, A.A., vedushchiy red.; SIL'CHENKOVA, V.V., tekhn.red.

[Problems of bibliography in the natural sciences; a collection of reports at the Sixth Conference of the Library of the Academy of Sciences of the U.S.S.R., Leningrad, March 2-4, 1960] Voprosy otrasslevoi bibliografii po estestvennym naukam; sbornik dokladov na VI nauchnoi konferentsii biblioteki Akademii nauk SSSR, Leningrad, 2-4 marta 1960.g. Leningrad, 1960. 145 p.

(MIRA 13:11)

1. Akademiya nauk SSSR. Biblioteka. 2. Zaveduyushchiy nauchnobibliograficheskim otdelenii Biblioteki AN SSSR (for Lupov).  
(Bibliography--Science)

RYSS, Mark Abramovich; KHODOROVSKIY, Yakov Naumovich; PROLOV, A.A., red.;  
ROZENTSVEIG, Ya.D., red.izd-va; DOBUZHINSKAYA, L.V., tekhn.red.

[Production of ferroalloys] Proizvodstvo ferrosplavov; uchebnik  
dlia podgotovki kvalifitsirovannykh rabochikh na proizvodstve.  
Moskva, Gos.snauchno-tekhn.izd-vo lit-ry po chernoi i tsvetnoi  
metallurgii, 1960. 292 p. (MIRA 13:7)  
(Iron alloys—Metallurgy) (Steel—Metallurgy)

FROLOV, A.A.

Some problems in the detailed study of the geology of carbonates.  
Geol. rud. mestorosh. no.5:82-93 S-0 '60. (MIRA 13;10)

1. Vsesoyuznyy institut mineral'nogo syr'ya, Moskva.  
(Siberia--Rocks, Carbonate)

SHCHEDROVSKIY, Yakov Samuilovich; FROLOV, A.A., retsentent; ROZENTSVEIG,  
Ya.D., red.; BUR'KOV, M.M., red. izd-va; TURKINA, Ye.D., tekhn.  
red.

[High silicon ferroalloys; production of silicon and ferrosilicon]  
Vysokokremnistye ferrosplavy; proizvodstvo kremnia i ferrosilitija.  
Sverdlovsk, Gos. nauchno-tekhn. izd-vo lit-ry po chernoi i tsvetnoi  
metallurgii, 1961. 256 p. (MIRA 14:10)  
(Ferrosilicon) (Silicon)

SHCHEDROVITSKIY, Yakov Samuilovich; FROLOV, A.A., retsenzent; ROZENTSVEYG,  
Ya.D., red.; BUR'KOV, M.M., red. izd-va; TURKINA, Ye.D., tekhn. red.

[High-silicon ferroalloys; production of silicon and ferrosilicon]  
Vysokokremnistye ferrosplavy; proizvodstvo kremnia i ferrosilitsiia.  
Sverdlovsk, Gos. nauchno-tekhn. izd-vo lit-ry po chernoi i tsvetnoi  
metallurgii, 1961. 256 p.  
(Ferrosilicon) (Silicon)

TSVETKOVA, N.N., kand. biol. nauk; SKAZKIN, F.D., red.; FROLOV, A.A.,  
red.; FGATINA, E.A., red.

[Transpiration and its role in the life of plants;  
bibliographic index for 1926-1958] Transpiratsiia i ee zna-  
chenie v zhizni rastenii; bibliograficheskii ukazatel', 1926-  
1958. Pod red. F.D.Skazkina. Leningrad, Akad. nauk SSSR,  
1962. 158 p.  
(MIRA 15:10)

1. Deystvitel'nyy chlen Akademii pedagogicheskikh nauk RSFSR  
(for Skazkin). 2. Zaveduyushchaya bibliotekoy Botanicheskogo  
instituta im. V.L.Komarova Akademii nauk SSSR (for Tsvetkova).  
(Bibliography--Plants--Transpiration)

FROLOV, A.A.

Joint tectonics of alkali-ultrabasic rocks and carbonatites.  
Geol.rud.mestorozh. no.2:48-58 Mr-Ap '62. (MIRA 15:4)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut mineral'nogo  
syr'ya.  
(Siberian Platform--Joints (Geology))

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000513730010-1

FROLOV, A.A.; EPSHTEYN, Ye.M.

Geology of carbonatite massifs. Geol. mest. red. elem. no.17:  
38-69 '62. (MIRA 16:10)

(Carbonatites)

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000513730010-1"

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000513730010-1

FROLOV, A.A.

Characteristics of the distribution of the rare-metal mineralization.  
Geol. mest. red. elem. no.17:125-133 '62. (MIRA 16:10)

(Carbonatites) (Metals, Rare and minor)

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000513730010-1"

L 27241-65 EMT(d)/EFC(k)-2/EED-2/EWP (1) Pm-4/Po-4/Pq-4/Pg-4/Pk-4 TJP(c)  
ACCESSION NR: AT5003917 3B/CG/GS/ S/0000/64/000/000/0209/0211

AUTHOR: Korolev, V. V.; Karlov, N. P.; Trebina, N. M.; Frolov, A. A.

50

37

TITLE: Analog equipment for the processing of experimental curves B+1

SOURCE: Vsesoyuznaya konferentsiya - seminar po teorii i metodam matematicheskogo modelirovaniya. 3d, 1962. Vychislitel'naya tekhnika v upravlenii (Computer technology in control engineering); sbornik trudov konferentsii. Moscow, Izd-vo Nauka, 1964, 209-211

TOPIC TAGS: data processing, data reduction, automatic data correlation, automatic integration, automatic Fourier analysis

ABSTRACT: A combined analog computer intended for the calculation of the mean values of measured quantities and determining the frequency spectrum of an experimental curve, such as may be obtained in heat-physics research, and whose construction is within the capability of a small laboratory, is described. The equipment is based on the use of dc amplifiers with automatic null drift stabilization, and precision wire-wound resistances. Curves traced by an automatic recording

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ACCESSION NR: AT5003917

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potentiometer (EPP-9) were converted into voltage by means of the potentiometers themselves, using single-turn potentiometers coupled to the automatic potentiometer shaft, and using photoelectric scanning of the curve. Procedures for integration, Fourier analysis, and determination of the correlation function and other relations are described briefly. Only the integration and Fourier-expansion circuits were tested. The integration could be performed in approximately 600 seconds with an error of 1%. Resolution into 15 harmonics accurate to within 3% of the value of the fundamental was effected within approximately 2 hours. Orig. art. has: 1 figure and 7 formulas.

ASSOCIATION: None

SUBMITTED: 17Aug64

ENCL: 00

SUB CODE: DP

NR REF Sov: 003

OTHER: 000

Card 2/2

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000513730010-1

FROLOV, A.A.

The squadron's second life. Sudostroenie no. 11:82-83  
N '65. (MIRA 19:1)

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000513730010-1"

FROLOV, A. A., Candidate Tech Sci (diss) -- "Investigation of the magnitude and nature of bend stresses in gear teeth of the transmission of the 'Belarus' tractor". Leningrad, 1959. 20 pp (Min Agric RSFSR, Leningrad Agric Inst, Chair of "Tractors and Automobiles"), 120 copies (KL, No 25, 1959, 136)

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000513730010-1

FROLOV, A.A., podpolkovnik meditsinskoy sluzhby

Surgery of the lungs in the hospital. Voen.-med. zhur. no.4:29-31  
Ap '60. (MIRA 14:1)  
(LUNGS—SURGERY)

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000513730010-1"

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000513730010-1

STUDY OF POSSIBILITIES FOR CREATING AN INPUT DEVICE FOR AN ANALOG COMPUTER USING ELECTROLUMINESCOPES. TRUDY MCKEEHAN, M.S.

Study of possibilities for creating an input device for an analog computer using electroluminescopes. Trudy McKeehan, M.S.  
12-54 '64. (MTR 17:6)

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000513730010-1"

FROLOV, A. D., Cand Tech Sci -- (diss) "Author's report on  
the dissertation for obtaining the <sup>academic</sup> learned degree of Cand Tech  
Sci on the <sup>title</sup> subject 'Study of ~~the~~ conditions <sup>for the manufacture</sup> of production of  
massive casts from secondary copper-based alloys'." Mos,  
TsBNTI, 1957. 14 pp (Gosplan USSR, Central Sci Res Inst of  
Technology and Machine <sup>Building</sup> Construction TsNIITMash), 100 copies  
(KL, 1-58, 119)

- 60 -

FROLOV, A. D.

Melting round specimens of secondary copper base #1573.  
A. D. Frolov. "Metallurgist Proceedings" 1937, No. 6, 16-18.—  
Detailed description of expts. conducted on Si bronze and tin  
bronze showed that H content of the metal does not induce  
porosity or form blowholes; while exodic incusients produce  
both shrinkage and gas cavities. J. D. Oat.

5  
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6/13/

FROLOV, A.D.

Konstruirovaniye radiopriemnikov; vo pomoshch' radio-liubiteliu-konstruktoru.  
[Installation of radio receivers a radio amateur's aid] Moskva, Sovet-skoe radio,  
1948. 175 p. diagrs. DLC: TK6563.F7

Spravochnik konstruktora radioveshchatel' nykh priemnikov. [Manual of a constructor  
of radio-broadcasting receivers] Moskva, Gosenergoizdat, 1951. 424 p.

SO: Soviet Transportation and Communication, A Bibliography, Library of Congress,  
Reference Department, Washington, 1952, Unclassified.

**"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000513730010-1**

FROLOV, A. D.

"Handbook for the Builder of Broadcast Receiving Sets,", Gosenergoizdat, 1951.

**APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000513730010-1"**

FROLOV, Aledsey Dmitriyevich; GRACHEV, Ye.T., redaktor; FRIDKIN, A.M.,  
tekhnicheskiy redaktor

[Basic principles in designing parts for mass and serial production  
of radios] Osnovnye printsipy konstruirovaniia detalei massovo i  
seriinoi radioapparatury. Moskva, Gos. energ. izd-vo, 1955. 341 p.  
(Radio--Apparatus and supplies) (MIRA 8:8)

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000513730010-1

FROLOV, A. D.

Delenproizvodstvo v sovetskikh uchrezhdeniyakh.  
Moskva, Gosyurizdat, 1957.

181 p. diagrs., tables 20 cm.

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000513730010-1"

FROLOV A.D.

132-58-5-7/14

AUTHOR: Khmelevskoy, V.K.; Frolov, A.D.

TITLE: Surveys of the Intensity of Radio Waves at Broadcasting Stations for Geologic Mapping (Izmereniya napryazhennosti radiovolnovogo polya shirokovedushchatel'nykh stantsii dlya geologicheskogo kartirovaniya)

PERIODICAL: Razvedka i Okhrana Nr, 1958, № 5, pp 38 - 44 (USSR) <sup>24</sup>

ABSTRACT: The authors describe the radio-comparative method for measuring the electro-magnetic fields of broadcasting stations, used in solving problems of geologic mapping. It received its name from the method of measuring the intensity of the radio-field which is based on the comparison of the received signal with the signal of a calibrating generator. Powerful broadcasting stations form a large electro-magnetic field for thousands of kilometers. Only long waves are used in this procedure. In a zone 200 km distant, the electro-magnetic field could be represented as a flat vertically polarized wave; when the wave passes over rocks which are uniform in electrical behavior, only a horizontal component of the magnetic field is observed.

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132-58-5-7/14

Surveys of the Intensity of Radio Waves at Broadcasting Stations for Geologic Mapping

The presence of different rocks and deposits will alter the normal field: the horizontal component changes from point to point and a vertical component is formed. This distortion is due to the appearance of fields formed by secondary emitters - geological heterogeneous rocks and deposits located near the point of observation. The observations by the radio-comparative method must be repeated many times at points 20 or 30 m apart and in more complex grounds - 3 to 10 m distant. The authors describe in detail all calculations by which every rock or deposit could be accurately located on the map. There are 5 graphs.

ASSOCIATION: MGU

AVAILABLE: Library of Congress

Card 2/2      1. Geological mapping-Methods

FROLOV, A.D.

Radio-wave method for geological mapping. Sov. geol. 3 no.6:78-92  
Je '60. (MIRA 13:11)

1. Moskovskiy gosudarstvennyy universitet imeni M.V.Lomonosova.  
(Geology--Maps) (Radio in geology)

FROLOV, A. D.

Using fields of radio broadcasting stations to map the contacts  
of permafrost layers. Merzl. issl. no.1:227-235 '61.  
(MIRA 16:1)

(Frozen ground—Maps)

FROLOV, A. D.; SMIRNOV, A. A.

Some results of studying ultrasonic wave propagation in  
samples of frozen ground. Merzl. issl. no. 1:236-254 '61.  
(MIRA 16:1)

(Frozen ground) (Ultrasonic waves—Industrial  
application)

EROLOV, A.D.

Propagation of ultrasonic waves in frozen sandy and clayey rocks.  
Izv.AN SSSR.Ser.geofiz. no.5:732-736 My '61. (MIRA 14:4)

1. Moskovskiy gosudarstvennyy universitet im. M.V.Lomonosova.  
(Ultrasonic waves) (Frozen ground)

FROLOV, A.D., kand.tekhn.nauk

Increasing the density of bronze and brass castings.  
Kunstr.i tekhn.mash. no.1:158-173 '61. (MIRA 15:2)  
(Bronze founding)  
(Brass founding)

39077  
S/169/62/000/006/006/093  
D228/D304

24/1860

AUTHORS: Frolov, A. D. and Smirnov, A. A.

TITLE: Some results of studying ultrasound propagation in  
rock specimens

PERIODICAL: Referativnyy zhurnal, Geofizika, no. 6, 1962, 7, ab-  
stract 6A33 (V sb. Merzlotn. issled., no. 1, M., MGU,  
1961, 236-254)

TEXT: The measurements were made by means of the ultrasonic device  
УП-4 (UP-4), designed on the basis of the ИКЛ-5 (IKL-5) apparatus.  
The UP-4 device is an electron-acoustic appliance, allowing the  
passage of an elastic impulse through a rock specimen to be mea-  
sured in a wide time range. The time is determined by means of  
reading marks on the cathode-ray tube's scale. There are three  
time-measurement bands, covering an interval from 0 to 16,000  $\mu$ sec.  
The circuit provides for a certain main-pulsing time lag in relation  
to the moment when scanning is started. An additional lag which can  
be smoothly controlled within the single interval between the main

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S/169/62/000/006/006/093  
D228/D504

Some results of studying ...

time marks on each band, is created by means of a special potentiometer. A time interpolation accuracy of 0.05—the value of the interval on each band is achieved as a result. The specimens were prepared from the core of holes, drilled near the Yakovlev KMA deposit; the specimens were paraffinized in order to preserve their natural moisture. After preparation, the specimens were subjected to freezing in a special refrigerating plant at a temperature of -50°C for 6 - 7 hours. The values of the propagational speeds of ultrasound and of the elasticity modulus for clays, sands, their interstratification, and sandstone were determined as a result of the executed tests. It is established how these magnitudes change in relation to the temperature in the range from -20 to +20°C, the freezing conditions, and the moisture. In the temperature range from -2 to +2°C there is an extremely sharp change in the acoustic characteristics of argillo-arenaceous rocks. The values of the propagational speeds of ultrasound in the studied rocks vary from 1500 to 3100 m/sec. The jump in the change of the propagation velocity of ultrasound reaches 300 - 500% for sands and 20 - 30% for clays. Subsequently it will be expedient to continue the re-

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<sup>39077</sup>  
S/169/62/000/006/006/093  
D228/D304

Some results of studying ...

search with the aim of ascertaining the absorption factor on different frequencies and in different lithologic rock types. It will be necessary, too, to study the conditions of the propagation and the possible recording of not only longitudinal but also transverse and other waves. Abstracter's note: Complete translation. /

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Card 3/3

GUMELYA, Yevgeniy Borisovich; FROLOV, A.D., red.; BORUNOV, N.I.,  
tekhn. red.

[Choice of networks for transistor radio receivers]  
Vybor skhem tranzistornykh priemnikov. Moskva, Gosener-  
goizdat, 1963. 63 p. (Massovaia radiobiblioteka, no.481)  
(MIRA 17:2)

FRUMKIN, Georgiy Davydovich; LEVITIN, Ye.A., retsenzent; FROLOV,  
A.D., retsenzent; GOROKHOVA, S.S., tekhn. red.

[Design and construction of radio apparatus] Raschet i  
konstruirovaniye radioapparatury. Moskva, Izd-vo  
"Vysshiaia shkola," 1963. 318 p. (MIRA 17:2)

FROLOV, A.D.

Prospecting for quartz veins using radio-wave profiling. Sov.  
geol. 7 no.11:123-126 N '64. (MIRA 18:2)

1. Moskovskiy gosudarstvennyy universitet.

FRCLOV, Aleksey Dmitriyevich; MOZHNELOV, B.N., retsenzent;  
VASIL'YEV, K.P., red.

[Radio equipment assembly; basic design principles] Uzly  
radioapparatury; obshchie osnovy konstruirovaniia. Mc-  
skva, Izd-vo "Energia," 1964. 469 p. (MIRA 17:8)

L 12420-65 EWT(1) MLK/GW

ACCESSION NR: AT4047270

S/0000/64/000/000/0190/0202

AUTHOR: Frolov, A. D.

TITLE: Transistorized apparatus and the radiowave mapping method B

SOURCE: Mezhvuzovskaya nauchnaya konferentsiya po induktivnym metodam rudnoy geofiziki. Moscow, 1961. Trudy\*. Moscow, Izd-vo Nauka, 1964, 190-202

TOPIC TAGS: geological mapping, radiowave mapping, geological prospecting<sup>12</sup>

ABSTRACT: Experiments with the use of the field of radio stations in geological prospecting have been carried out in the SSSR since 1946, with its principal development under the direction of A. G. Tarkhov. Attempts to introduce the method in 1950-1953 failed because it was used in inappropriate areas; it was finally regarded as unsuitable and officially rejected. The author feels that the principal reason for the failure was imperfection of the measurement apparatus, lack of understanding of the physical principles of the method and poor field techniques. The further development of the method, in which these objections were refuted, is reviewed. Extensive use of the method in 1954-1961 in various regions of the SSSR is mentioned. Emphasis in the paper is on the development of semiconductor apparatus for measurement of field strength. The PINP-1, developed in 1958, has a superheterodyne circuit; it has a highly selective microvoltmeter capable of

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ACCESSION NR: AT4047270

measuring strength from 0.3 to 1000  $\mu$ v in a frequency range of 150-450 kc/s. The instrument has a special magnetic antenna which rotates on horizontal and vertical axes. In 1959, this instrument was tested in the field in winter and summer. It was modified in 1960 and named the PINP-1M. Thirty sets have been constructed and are in use; the text is accompanied by a circuit diagram. The instrument measures 290x220x115 mm and weighs 4.5 kg. It has been effective in the radiowave method of geological mapping (radiowave mapping). The instrument was then improved further and renamed the PINP-2; a circuit diagram accompanies the text. This is more portable than the previous models, measuring 245x170x95 mm and weighing about 3 kg. Experimental models are now being produced, and 100 sets will be produced in 1963; it has been recommended officially for adoption in geophysical and geological survey parties. The instrument lowers the cost and increases the productivity of geological survey work, especially in inaccessible regions with deep overburden. It is recommended that the method and apparatus be perfected and used in all parties making medium- and large-scale surveys. A variety of problems involved in practical use of the method are discussed, particularly the influence of overburden. Orig. art. has: 1 formula and 6 figures.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet imeni M. V. Lomonosova  
(Moscow State University)

Card 2/3

L 14944-66 EWT(d)/FSS-2

ACC NR: AT5026388

SOURCE CODE: UR/0000/64/000/00C/0079/0082

AUTHOR: Frolov, A. D.

ORG: none

53  
Q41

TITLE: Equipment for amplitude-phase measurements of the fields of remote radio stations

9M

SOURCE: Moscow. Universitet. Kafedra geofizicheskikh metodov issledovaniya zemnoy kory. Geofizicheskiye issledovaniya (Geophysical research), no. 1, Moscow, Izd-vo Mosk. univ., 1964, 79-82

TOPIC TAGS: radio signal, electromagnetic field, phase measurement, ELECTRIC MEASURING INSTRUMENT

ABSTRACT: The author considers two methods for studying the phase structure of the fields of radio stations without a reference signal from a field generator. The first method is based on the measurement of phase shifts between different field components (e. g. between the electrical and magnetic field components). Equipment

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L 14944-66

ACC NR: AT5026388

for phase measurements based on this method is being developed under the guidance of G. F. Ignat'yev in the "Kraspromavtomatika" laboratory in the Krasnoyarsk Council of National Economy. The second method is based on comparing the amplitude and phase of the field to be measured in the anomalous zone with the values of the amplitude and phase in a section without anomalies which is selected in field conditions as a function of specific geological environment and the nature of the anomalous structure of the field. The author proposes a mobile unit for amplitude phase measurements of radio fields by this method. A schematic block diagram of the device is given. After reception, the selected signal is fed to a polar differential voltmeter which can measure the amplitude and phase of the signal. When there are no noticeable disturbances, only the amplitude is measured. When there are sharp disturbances in the amplitude of the field, an automatic unit operates which closes a relay to connect a standby memory for phase or amplitude into the measurement circuit. These storage units are first connected to the output of the receiver-amplifier unit for recording the phase and amplitude, and measurements in the anomalous zone are then made with respect to these stored values. The memory units are then disconnected from the output of the receiver unit and connected to the differential voltmeter where the recorded values of phase and amplitude are sent during measurement of the anomaly. After the anomaly has been measured and the sharp

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ACC NR: AT5026388

changes in the field have ceased, the automatic unit operates again to disconnect the memory units and place them in the standby state for the next anomaly, when a repetition of this cycle occurs. A portable modification of this instrument is also described. Orig. art. has: 1 figure.

SUB CODE: 09,17 SUBM DATE: 05Nov64/ ORIG REF: 000/ OTH REF: 000

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Card 3/3

*Frolov, A.F.***U S S R**

[Calculating multicomponent mixture condensation and evaporation processes. A. F. Frolov (Yaroslavskii Technol. Inst.). *J. Appl. Chem. U.S.S.R.* 26, 65-70 (1953) (Engl. translation); *Zhur. Priklad Khim.* 26, 77-83 (1953). —The equations  $x/x' = L^{k-1}$  for evapn. and  $y/y' = V^{(k-1)/k}$  for condensation, where  $x, x'$  are mole fractions in the liquid phase,  $y, y'$  in the vapor phase, primes referring to feed compn.,  $L$  and  $V$  total moles in liquid and vapor, and  $K$  the Dalton-Raoult const., were derived by substitution of the Dalton-Raoult law in the Raoult equation. The equations were applied for various values of  $K$  and to various systems.]

Arthur Fleischer

*11/23*

Frolov, A.F.

*Analytical method for the quantitative solution of a two-component two-phase (liquid-vapor) phase system. A. F. Frolov (Tschech. Inst., Vysokov). Zhur. Fizika. Khimi. i Tekhnika (1954). Rayleigh's equation is integrated by the substitution of Dalton-Raoult law for each of the components in the residue and the distillate. For a mixt. of 35 mol. % pentane and 65% heptane at 85-62.5° the results obtained by the simplified equations agree with those obtained graphically within 4.5% in the residue and 6.1% in the distillate. For narrow temp. ranges (~10°) the 2 methods give practically the same results. For wider temp. ranges the results agree within 4-6% in the distillate and 4-15% in the residue.*

I. Benowitz

PROLOV, A.F.

Method for determining the thermal dependence of heats of vaporization.  
Zhur.fiz.khim. 29 no.4:585-588 Ap '55. (MIRA 8:8)

1. Yaroslavskiy tekhnologicheskiy institut. (Heat of vaporization)

ITER 6000, A.F.

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Izobraevi, Technological Institute  
Uchenye Zapiski, Tom XX (Scientific Notes, Vol. 2) are ready print.  
Editorial Staff: A.I. Zaitsev, Candidate of Historical Sciences; Doctor M.M. Makarov, Candidate of Technical Sciences; Professor M.I. Pashkov,  
Doctor of Technical Sciences;  
Prof. Dr. Professor Yu.S. Raskakov, Doctor of Chemical Sciences

Secretary-Scientist: B.P. Ustavitshev, Candidate of Chemical Sciences

PURPOSE: This book is primarily intended for industrial chemists and scientists interested in the kinetics of chemical reactions and related physical processes.

CONTENTS: The twenty-two articles of this collection deal mainly with industrial processes for the preparation of organic compounds, problems of heat, physics and general mechanics related to these processes, and with industrial chemical equipment. No probabilities are mentioned. References are given after each article.

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FROLOV, A.F. (Kiyev)

Side effects of antibiotics in connection with the changing  
condition of the liver in acute dysentery. Vrach.delo no.2:  
147-151 F '59. (MIRA 12:6)

1. Institut infektsionnykh bolezney AMN SSSR (nauchnyy rukovo-  
ditel' raboty - prof.G.I.Khomenko).  
(ANTIBIOTICS) (DYSENTERY) (LIVER)